

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-9 (canceled).

10. (new) Gear pump for highly viscous materials, comprising:

a housing;

a gear section having a sun wheel and several planet wheels disposed to be fixed at the housing;

an input screw section having an input screw shaft, which is rotationally fixedly connected with the sun wheel, and having an input transfer mix area;
and

an output screw section having an output screw shaft, which is rotationally fixedly connected with the sun wheel, and having an output transfer mix area;

wherein, in the input and output transfer mix areas, the input and output screw shafts have a flight depth decreasing toward the gear section, and, in the housing, flights are formed which extend in an opposite direction relative to the flights of the screw shafts, the flights having increasing diameters toward the gear section, and each of the flight ending between the planet wheels.

11. (new) The gear pump according to claim 10, wherein the planet wheels are disposed in roller bearings in the housing.

12. (new) The gear pump according to claim 10, wherein the housing has a first housing part accommodating the input screw shaft, a second housing part surrounding the planet wheels and the sun wheel, and a third housing part accommodating the output screw shaft.

13. (new) The gear pump according to claim 11, wherein the housing has a first housing part accommodating the input screw shaft, a second housing part surrounding the planet wheels and the sun wheel, and a third housing part accommodating the output screw shaft.

14. (new) The gear pump according to claim 13, wherein the roller bearings of the planet wheels are received in the first housing part accommodating the input screw shaft and in the third housing part accommodating the output screw shaft.

15. (new) The gear pump according to claim 10, wherein the screw shafts are mutually connected in a rotationally fixed manner, and the sun wheel is fitted onto one of the screw shafts.

16. (new) The gear pump according to claim 11, wherein the screw shafts are mutually connected in a rotationally fixed manner, and the sun wheel is fitted onto one of the screw shafts.

17. (new) The gear pump according to claim 13, wherein the screw shafts are mutually connected in a rotationally fixed manner, and the sun wheel is fitted onto one of the screw shafts.

18. (new) The gear pump according to claim 10, wherein the flight depths of the screw shaft disappear toward the gear section.

19. (new) The gear pump according to claim 10, wherein the gear section has four planet wheels, and the housing has four flights respectively in the transfer mix areas.

20. (new) The gear pump according to claim 11, wherein the gear section has four planet wheels, and the housing has four flights respectively in the transfer mix areas.

21. (new) The gear pump according to claim 11, wherein the gear section has four planet wheels, and the housing has four flights respectively in the transfer mix areas.

22. (new) The gear pump according to claim 12, further comprising connection ducts constructed in the first housing part and/or in the third housing part, which connection ducts mutually connect the flights of the input transfer mix area and the flights of the output transfer mix area respectively.

23. (new) The gear pump according to claim 10, wherein flights of the input transfer mix area are spaced in the circumferential direction with respect to the flights of the output transfer mix area.

24. (new) The gear pump according to claim 19, wherein flights of the input transfer mix area are spaced in the circumferential direction with respect to the flights of the output transfer mix area.

25. (new) The gear pump according to claim 22, wherein flights of the input transfer mix area are spaced in the circumferential direction with respect to the flights of the output transfer mix area.

Amendments to the Abstract:

Please add an Abstract of the Disclosure submitted herewith on a separate unnumbered page.